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APPLICATION NO.	Fi	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/493,526	(	01/28/2000	Ofir Shalvi	TI-30149 2369 EXAMINER		
23494	7590	04/05/2005				
		ENTS INCORPOR	CORRIELUS, JEAN B			
P O BOX 65. DALLAS, T				ART UNIT PAPER NUMB		
·				2637		
			DATE MAILED: 04/05/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
0.55	• • •	09/493,526	SHALVI ET AL.					
Office A	Action Summary	Examiner	Art Unit					
		Jean B Corrielus	2631					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE MAILING DA  - Extensions of time may after SIX (6) MONTHS  - If the period for reply sp  - If NO period for reply is  - Failure to reply within the  - Any reply received by the	TATUTORY PERIOD FOR REPL'TE OF THIS COMMUNICATION. be available under the provisions of 37 CFR 1.1 from the mailing date of this communication. secified above is less than thirty (30) days, a repl specified above, the maximum statutory period of the set or extended period for reply will, by statute the Office later than three months after the mailing istrent. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from t, cause the application to become ABANDONE	ely filed swill be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
	e to communication(s) filed on 26.	January 2005 .						
2a)⊠ This action		nis action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
	3 and 5 is/are pending in the application							
_	4a) Of the above claim(s) is/are withdrawn from consideration.							
· -	5) Claim(s) 5 is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	6)⊠ Claim(s) <u>1-3</u> is/are rejected.							
_	is/are objected to.							
	are subject to restriction and/o	r election requirement.	•					
Application Papers	tion is abjected to but he Everine	-						
	tion is objected to by the Examine		w the Everniner					
	s) filed on <u>28 January 2000</u> is/are:							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S	•	·						
	ment is made of a claim for foreign	n priority under 35 H.S.C. & 119(a	)-(d) or (f)					
	Some * c) None of:	1 priority under 55 0.0.0. § 1 15(a)	, (a) or (i).					
,	, =	s have been received						
	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>							
	s of the certified copies of the prio							
ар	plication from the International Buned detailed Office action for a list	reau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
	slation of the foreign language pro nent is made of a claim for domest	• •						
Attachment(s)								
	Cited (PTO-892) n's Patent Drawing Review (PTO-948) e Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)					

#### **DETAILED ACTION**

1. In view of the Appeal Brief filed on 1/26/05, PROSECUTION IS HEREBY REOPENED. Applicant's argument filed on 1/26/05, with respect to the rejection of claim 5 have been fully considered and are persuasive the rejection of claim 5 is hereby withdrawn. Claims 1-3 remain rejected in view of Vijayan et al and the ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
  - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

#### **Drawings**

2. The drawings are objected to because reference numerals have not been used to identify each element of the drawings. For instance, a reference number, such as, 2, can be used along with the descriptive language "convolutional encoder" to designate the first element of fig. 1. Note that, the specification must be amended to reflect any change made to the drawing. Corrected drawing sheets in compliance with 37 CFR

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1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371° of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors

Protection Act of 1999 (AIPA) do not apply to the examination of this application as the

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application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Vijayan et al US Patent No. 6,151,296.

As per claim 1, Vijayan et al discloses a transmitter (fig. 2) comprising a convolutional encoder 26 for receiving data values; said encoder 26 coupled to (concatenated with) an outer Reed-Solomon encoder 22 (see abstract); a bit-interleaver 28 interconnected with the convolutional encoder 26; a symbol mapper 32 interconnected with said bit interleaver 28.

As per claim 2, the mapper 32 is a QAM Mapper see fig. 2.

As per claim 3, Vijayan et al further teaches a receiver fig. 3 having element 40 functionally equivalent to the claimed scorer for receiving symbols; a bit deinterleaver 50 see col.6, lines 48-51 interconnected with element 40 functionally equivalent to the claimed scorer and a convolutional decoder 52 interconnected with said bit deinterleaver 50.

(Note that the limitation "for a CATV upstream data channel transmitter" and "for a CATV upstream data channel receiver" are not given patentable weight as such limitations are merely intented use). See below for further comment(s).

## Allowable Subject Matter

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5. Claim 5 is allowed.

### Response to Argument

- 6. Applicant's arguments filed on 1/26/05 have been fully considered but they are not persuasive. In response to applicant's argument that Vijayan does not provide a coding system adapted to be used in a cable TV system, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).
- 7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B Corrielus whose telephone number is 571-272-3020. The examiner can normally be reached on Maxi-Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-3086. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jean B Corrielus Primary Examiner Art Unit 2637